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UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

July Field Program, 1915.

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Study of forest conditions in North Carolina in cooperation with State Geological and Economic Survey.—J. S. Holmes, Chapel Hill.

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Range reserve experiments.—C. E. Fleming, grazing examiner; L. C. Hurtt, grazing assistant, Las Cruces, N. Mex.

Game studies.—C. L. Smith, forest supervisor, Gardiner, Mont.

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PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruby J. Tiller.

INDUSTRIAL INVESTIGATIONS.—H. S. BETTS, acting in charge, Washington, D. C. Correlation of Lumber Grades and Consumers' Specifications, divided between members of office. Departmental Cooperation, Inspection and Revision of Government Specifications, J. C. Nellis and R. K. Helphenstine, jr., Washington, D. C. Production of Lumber and Forest Products (in cooperation with the Bureau of Crop Estimates, the Bureau of the Census, and lumber manufacturers' associations), A. H. Pierson, Washington, D. C. Veneer Investigations, S. L. Wolfe, Washington, D. C. Tight and Slack Cooperage Investigations, J. T. Harris, Washington, D. C. Box Industry Investigations, J. C. Nellis, Washington, D. C. Study of Commercial Southern Yellow Pine to Determinate Quality of Material Grown Throughout the South and Sold in the Principal Markets, and Application of Density Rules (in cooperation with yellow pine associations). W. D. Brush, D. G. White, Washington, D. C. Mechanical Utilization of Mill and Factory Waste, R. K. Helphenstine, jr., Washington, D. C. Market Summaries and Lumber and Stumpage Price Records, J. C. Nellis, Washington, D. C. Collaborator, A. B. Strough, Albany, N. Y.

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- Sioux.**—See South Dakota.

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- Sioux.**—ARTHUR C. HAINES, forest supervisor, Camp Crook (WU via Bellefourche—Am via Bellefourche).

WASHINGTON.

- Kaniksu.**—M. N. STICKNEY, forest supervisor. Coolin, Idaho (WU via Priest River—Am, GN via Priest River) ; J. F. Forsythe, deputy forest supervisor.

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LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; RESS PHILIPS, land classification; J. B. CAMMANN, mineral examiner.

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Wagon Wheel Gap, Rio Grande National Forest.—J. L. GLENDENING, Wagon Wheel Gap, Colo., and Thomas A. Blair, of the Weather Bureau.

NATIONAL FORESTS.

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Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU-WF) ; Peter Keplinger, forest examiner.

La Sal.—See Utah, District 4.

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WYOMING.

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Washakie (Western Division).—LEE E. COOPER, forest supervisor, Pinedale (WU-Am).

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O. N. POWELL, highway engineer (Office of Public Roads).

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GRAZING.—**JOHN KERR**, assistant district forester; **E. N. KAVANAGH**, inspector of grazing.

STUDIES.—**R. R. HILL**, grazing examiner.

LANDS.—**FRANK C. W. POOLER**, assistant district forester; **MORTON M. CHENEY**, national forest examiner. Classification: **FRANK E. ANDREWS**, national forest examiner; **REX KING**, forest examiner. Entry surveys: **W. G. TURLEY**, surveyor, Coronado; **R. P. A. JOHNSON**, surveyor, Prescott; **C. A. LONG**, surveyor, Chiricahua; **LEE C. DAVES**, surveyor, Gila.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—**G. A. PEARSON**, in charge, Flagstaff, Ariz.; **C. F. Korstian**, forest examiner.

NATIONAL FORESTS.

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GRAZING.—HOMER E. FENN, assistant district forester.

C. N. WOODS, inspector of grazing.

STUDIES.—MARK ANDERSON, grazing examiner.

LANDS.—T. C. HOYT, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys.

ANGUS M. WOODBURY, land classification.

SUPPLY DEPOT.—A. M. SMITH, property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; S. E. Bower and F. S. Baker, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU-WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU-Am) ; Dana Parkinson, deputy forest supervisor.

Cache.—See Utah.

Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU-Am) ; L. W. Hastings, deputy forest supervisor ; James H. Hull, forest examiner.

Challis.—DAVID LAING, forest supervisor, Challis (WU-Am).

Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU-P) ; H. B. Marias, forest examiner.

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU-Am).

Minidoka.—W. M. CAMPBELL, forest supervisor, Oakley (WU-Am) ; C. D. Simpson, forest examiner.

Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU-Am).

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU-Am) ; Lawrence J. Phelan, deputy forest supervisor ; W. N. Sparhawk, forest examiner.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU-Am) ; S. S. Stewart, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU-Am) ; Herbert G. McPheters, deputy forest supervisor.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU-Am).

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU-Am) ; A. E. Oman, forest examiner.

NEVADA.

Humboldt.—S. B. ARTHUR, forest supervisor, Gold Creek (WU-WF).

Moapa.—THOMAS J. COLLINS, forest supervisor, Austin (WU-Am) ; Raymond G. Steele, deputy forest supervisor, Manhattan.

Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU-WF) ; D. B. Bailey, deputy forest supervisor.

Ruby.—JAMES M. RYAN, forest supervisor, Deeth (WU-WF).

Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise.

Toiyabe.—THOMAS J. COLLINS, forest supervisor, Austin (WU, P-WF) ; Raymond G. Steele, deputy forest supervisor, Manhattan.

UTAH.

- Ashley.**—W. M. ANDERSON, forest supervisor, Vernal (WU-WF); Chas. F. Evans, forest examiner.
- Cache.**—E. C. SHEPARD, acting forest supervisor, Logan (WU-Am); Pocatello Nursery, Arthur P. Say, forest ranger in charge, Pocatello, Idaho.
- Dixie.**—JOHN RAPHAEL, forest supervisor, St. George (WU-WF).
- Fillmore.**—ERNEST WINKLER, forest supervisor, Richfield (WU-WF); Lester E. Hitchcock, forest examiner.
- Fishlake.**—CARL B. ARENTSON, forest supervisor, Salina (WU-WF); Carl A. Mattesson, deputy forest supervisor; David A. Arrivee, forest examiner.
- La Sal.**—J. W. HUMPHREY, forest supervisor, Moab (WU-WF); S. B. Locke, deputy forest supervisor.
- Manti.**—B. E. MATTSSON, forest supervisor, Ephraim (WU-WF); W. M. Mace, deputy forest supervisor; J. C. Roak, forest examiner.
- Minidoka.**—See Idaho.
- Powell.**—GEO. H. BARNEY, forest supervisor, Escalante (WU-WF).
- Sevier.**—O. C. SNOW, forest supervisor, Panguitch (WU-WF).
- Uinta.**—A. W. JENSEN, forest supervisor, Provo (WU-WF); J. Carl Allred, deputy forest supervisor; J. W. Stokes, forest examiner.
- Wasatch.**—J. F. BRUINS, forest supervisor, Salt Lake City (WU, P-Am, WF); Cottonwood Nursery, N. J. Fetherolf, forest planting assistant, in charge; Beaver Creek Nursery, Asa L. Brower, forest examiner, in charge, Kamas; Earl C. Sanford and Adolph G. Hauge, forest examiners.

WYOMING.

- Teton.**—R. E. MILLER, forest supervisor, Jackson (WU-Am).
- Wyoming.**—CHARLES A. BEAM, forest supervisor, Afton (WU-Am); JOHN E. INGRAM, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

COERT DUBOIS, district forester; F. H. FOWLER, district engineer; J. L. MATHIAS, assistant to district engineer; W. C. HODGE, Jr., in charge information; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—CHARLES C. BRUNNER, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, assigned to fire protection; FRED-

ERICK H. HAFLEY, telephone expert; V. L. BONNER, deputy forest supervisor, assigned to road and entry surveys, etc.

C. C. MORRIS, highway engineer (Office of Public Roads).

MAINTENANCE.—F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman.

W. H. GALLAHER, forest examiner, reconnaissance.

RALPH HOPPING, national forest examiner, insect control.

C. H. ENSIGN, scaler, lumbering studies.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant, San Francisco, Cal.; G. FLIPPO GRAVATT, scientific assistant.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification: S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, national forest examiner, in charge of field party; CARY HILL, forest examiner. Entry surveys: P. L. DAY, national forest examiner, surveyor.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner, in charge. Quincy, Cal.; Stewart B. Show, assistant forest examiner.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest examiner, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF).

California.—M. A. BENEDICT, forest supervisor, Oriental (WU via Wil-lows-WF via Fruto); B. H. Mace, deputy forest supervisor; S. W. Strothman, forest examiner.

Cleveland.—S. W. WYNNE, forest supervisor, Escondido (WU-WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU-WF); Oscar M. Evans, forest examiner.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU-WF).

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU-WF); Douglas K. Noyes, forest examiner.

Lassen.—W. J. RUSHING, forest supervisor, Mineral (P via Red Bluff-WF via Red Bluff); Hamilton G. Merrill, deputy forest supervisor.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU-WF) ; Belknap C. Goldsmith, forest examiner.

Mono.—See Nevada.

Monterey.—N. H. SLOANE, forest supervisor, Big Sur (WU via Soledad-WF via Monterey).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU-Am) ; Frank B. Cayot, deputy forest supervisor ; George R. Orr and Reese W. Taylor, forest examiners.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P-WF).

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs (WU via Ducor-WF) ; F. P. Cunningham, deputy forest supervisor ; George W. Lyons, forest examiner.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P-WF) ; M. R. Tillotson, deputy forest supervisor ; Edward I. Kotok, forest examiner ; Pilgrim Creek Nursery, Fred W. Graham, assistant forest ranger, in charge, McCloud.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant-WF via Friant) ; Chester E. Jordan, deputy forester supervisor ; D. C. Birch and Ernest G. Dudley, forest examiners.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU-WF) ; T. C. West, deputy forest supervisor ; J. V. Wulff, forest examiner.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF) ; W. A. Merrill, deputy forest supervisor ; L. T. Larsen and K. Mills, forest examiners.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF) ; J. D. Coffman, deputy forest supervisor ; Ernest V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU-WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester ; LEONARD LUNDGREN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

B. J. FINCH, highway engineer (Office of Public Roads).

MAINTENANCE.—SHIRLEY BUCK.

INSPECTION UNDER WEEKS LAW.—N. G. JACOBSON and A. G. JACKSON, forest examiners.

FIRE STUDIES.—W. B. OSBORNE, deputy forest supervisor.

SILVICULTURE.—F. E. AMES, assistant district forester; AUSTIN CARY, logging engineer, assigned to district 6, in charge of investigation of lumber industry; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; L. A. NELSON and EDWIN C. ERICKSON, lumbermen.

PLANTING.—J. F. KÜMMEL, C. P. WILLIS, and W. H. LEVE, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS.—G. F. MEAD; W. M. H. WOODWARD, mineral examiner.

SETTLEMENT.—A. H. WRIGHT and A. H. HODGSON.

USES AND STATIONS.—G. F. MEAD.

LAND CLASSIFICATION.—J. ROY HARVEY.

ENTRY SURVEYS.—A. H. HODGSON.

PRODUCTS.—H. B. OAKLEAF, in charge; Claude E. Greider and C. W. Gould, Portland; C. W. Zimmerman, Cornelius Barry, and E. G. Snell, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Carson, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Thomas M. Hunt, deputy forest supervisor.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); George L. Drake, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P-WF); B. F. Heintzleman, deputy forest supervisor; R. H. Wallace, forest examiner.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P-WF); E. H. MacDaniels, deputy forest supervisor; H. D. Foster, Bruce Hoffman, forest examiners.

Deschutes.—MELVIN L. MERRITT, forest supervisor, Bend (WU, P); V. V. Harpham, deputy forest supervisor.

- Fremont.**—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev-P, WF); R. A. Bradley, deputy forest supervisor.
- Klamath.**—See California.
- Malheur.**—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker-Am, WF via Baker).
- Minam.**—EPHRAIM BARNES, forest supervisor, Baker (WU-Am); W. E. White, forest examiner.
- Ochoco.**—HOMER ROSS, forest supervisor, Prineville (WU, PT & T-Am); R. E. Smith, forest examiner.
- Oregon.**—T. H. SHERRARD, forest supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, deputy forest supervisor.
- Santiam.**—F. H. BRUNDAGE, forest supervisor, Albany (WU, P-WF); A. R. Wilcox, forest examiner.
- Siskiyou.**—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P-WF); D. B. Reynolds, deputy forest supervisor; H. Haefner, forest examiner.
- Siuslaw.**—H. B. RANKIN, forest supervisor, Eugene (WU, P-WF); C. T. Beach, deputy forest supervisor; H. M. Johnson and L. B. Pagter, forest examiners.
- Umatilla.**—W. W. CRYDER, forest supervisor, Pendleton (WU, P-Am).
- Umpqua.**—S. C. BARTRUM, forest supervisor, Roseburg (WU, P-WF); George Bonebrake, deputy forest supervisor; A. F. Kerr, forest examiner.
- Wallowa.**—H. W. HARRIS, forest supervisor, Wallowa (WU-Am); N. J. Billings, deputy forest supervisor.
- Wenaha.**—See Washington.
- Whitman.**—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker-Am, WF via Baker); R. M. Evans, deputy forest supervisor; T. J. Starker and Geo. A. Bright, forest examiners.

WASHINGTON.

- Chelan.**—G. W. MILHAM, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee).
- Columbia.**—A. E. COHOON, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N); W. W. G. Hastings, deputy forest supervisor; L. Wernsted, forest examiner.
- Colville.**—C. C. REID, forest supervisor, Republic (WU, P-Am, GN); F. W. Cleator, deputy forest supervisor.
- Okanogan.**—H. M. HALE, forest supervisor, Okanogan (PT & T-Am, GN via Wenatchee).
- Olympic.**—R. L. FROMME, forest supervisor, Oylmpia (WU, P-Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik, forest examiner.
- Rainier.**—G. F. ALLEN, forest supervisor, Tacoma (WU, P-Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest examiner.

Snoqualmie.—STANTON G. SMITH, forest supervisor, Seattle (WU, P-N, GN, WF) ; Lewis A. Treen, jr., deputy forest supervisor.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P-Am, GN, N)

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN).

DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Porto Rico. Office, Atlantic Building, Washington, D. C.

WM. L. HALL, district forester ; FRANKLIN W. REED, assistant district forester ; K. W. WOODWARD, forest inspector ; H. O. STABLER, assistant district forester.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—R. C. HUEY, acting forest supervisor, Hot Springs (WU, P-WF, P).

Ozark.—FRANCIS KIEFFER, forest supervisor, Harrison (WU-WF) ; A. C. Christeson, deputy forest supervisor ; C. J. Heller, forest examiner.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Camp Pinchot, Garniers (WU, P) ; W. F. Hill, deputy forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU-WF).

PORTO RICO.

Luquillo.—(Not under administration.)

PURCHASE AREAS.

Cherokee.—H. L. JOHNSON, forest examiner, in charge, Etowah, Tenn. (WU, P-Ad).

Georgia.—E. V. CLARK, national forest examiner, in charge, Blue Ridge, Ga. (WU, P-Ad).

Massanutten.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P-So).

Mount Mitchell.—L. L. BISHOP, forest examiner, in charge, Marion, N. C. (WU, P-So).

- Monongahela.**—W. A. HOPSON, forest examiner, in charge, Elkins, W. Va. (WU, P-Ad).
- Nantahala.**—R. F. HEMINGWAY, forest examiner, in charge, Andrews, N. C. (WU, P-So).
- Natural Bridge.**—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P-Ad, So).
- Pisgah.**—VERNE RHOADES, forest examiner, in charge, Asheville, N. C. (WU, P-So).
- Potomac.**—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P-So).
- Savannah (N).**—J. J. FRITZ, forest examiner, in charge, Highlands, N. C. (WU, P-So).
- Savannah (S).**—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P-So).
- Shenandoah.**—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P-Ad, So).
- Smoky Mountain.**—W. J. DAMTOFT, forest assistant, acting in charge, Townsend, Tenn. (WU, P-So).
- Unaka.**—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P-So).
- White Top.**—H. L. RUSSELL, forest examiner, acting in charge, Abingdon, Va. (WU, P-So).
- White Mountain.**—J. S. BENEDICT, forest examiner, in charge, Gorham, N. H. (WU, P-Am).

SERVICE CHANGES.

APPOINTED.

SILVICULTURE.—Edward E. Carter, forest inspector.

PRODUCTS.—Laboratory: Leslie R. Morris and Robert Leslie Pettigrew, assistant engineers in forest products.

DISTRICT 1.—Operation: Don B. Randolph, Beaverhead; Guy W. Kitch and Ralph H. Parsons, Coeur d'Alene; Eldon H. Myrick, Deerlodge; Frederick R. Paine, Flathead; William Berglund, Helena; James E. Willis, Madison; Wallace M. Laybourn, Pend Oreille; Jacob O. Thompson, Sioux, assistant forest rangers; Dallas E. Galloway, St. Joe, scaler. District office: Willard M. Drake, forest assistant. Operation: David S. Olson, assistant forest ranger. Silviculture: Mrs. Edith C. Beale and Ella Lovely, clerks (stenographers and typewriters).

DISTRICT 2.—Operation: Henry C. Orpen, district office; W. O. P. Fullerton and John H. Keep, Arapaho; Roscoe L. Bloss, Battlement; Alfred G. Clayton, Bighorn; Earl C. Dennis and Vernon C. Sheffield, Black Hills; Wm. B. Fay and Ray C. Montgomery, Durango; Ross

M. Lambdin, Gunnison; Fred C. Hill, Holy Cross; Evan J. Davis and Frank H. Rose, Routt; Geo. R. Hall, White River, assistant forest rangers; Rosamond E. Fry, district office; Clare S. O'Shea, White River, clerks (stenographers and typewriters).

DISTRICT 3.—Operation: Willard L. Stiles, Apache, clerk (stenographer and typewriter); Alston D. Morse, Coconino; Charles E. Moore, Pecos; William R. Warner, Prescott; Joseph R. Calloway and Charles A. Firth, Tonto; William T. Doherty, Tusayan, assistant forest rangers; Charles M. Kachemeier, Tonto, clerk (stenographer and typewriter). Silviculture: Mathew J. Culley, district office, assistant forest ranger. Lands: Charles D. Hodson, district office, surveyor-draftsman.

DISTRICT 4.—Operation: Parley P. Peterson, jr., Ashley; James W. Robins, Fishlake; Samuel E. Sternberg, Salmon; Lewis B. Koch, Wyoming, assistant forest rangers; Frank P. Collins, Humboldt, forest clerk; George L. Peeples, district office, draftsman (copyist).

DISTRICT 5.—Operation: Henry W. Atcheson, Mono; Claude W. Beardsley, Sequoia, assistant forest rangers; Edmund E. Meyer, Plumas, clerk (stenographer and typewriter).

DISTRICT 6.—Operation: Gertrude L. Whiting and Edith M. Youngkrantz, district office; Wm. E. Naylor, Chelan; Benjamin Irving, Santiam, clerks; Axel W. Erickson, Columbia; Royal U. Cambers, Crater; Benjamin F. Smith, Deschutes; Raymond H. Chapler, Santiam; Floyd V. Horton, Wallowa, assistant forest rangers. Silviculture: Robert H. Weitknecht, district office, assistant forest ranger. Lands: Edgar S. Dorman, district office, surveyor-draftsman; Frederick W. Rase and George W. Root, district office, surveyors. State Land Exchange: Lena M. Ash, district office, clerk. Products: Everett G. Snell, Seattle laboratory, assistant engineer forest products.

PROMOTED IN RANK.

OPERATION.—George G. Anderson, clerk to inspector of records.

RESEARCH.—Forest investigations: George N. Lamb, scientific assistant in basket willow culture to forest examiner. Products: David G. White, forest assistant to forest examiner.

ACQUISITION.—J. S. Kaplan, H. N. Sears, E. L. Lindsey, and L. H. Steffens, forest assistants to forest examiners.

DISTRICT 1.—Operation: R. E. Bodley, Gallatin; Arthur C. Haines, Sioux; Charles F. Howell, Selway, acting forest supervisors to forest supervisors; Carl M. Stevens, Cabinet, forest examiner to forest supervisor; Emery E. Wilson, Flathead, forest ranger to deputy forest supervisor; Burr W. Clark, Madison, forest ranger to deputy forest supervisor; John S. Paddock, Madison; R. R. Fitting and Adolph Weholt, Selway, assistant forest rangers to forest rangers. District office: Frank A. Fenn, forest supervisor to assistant district forester. Lands: James B. Yule, assistant forest ranger to surveyor-draftsman. Geography: Raymond E. Maurer, assistant forest ranger to surveyor.

DISTRICT 2.—Operation: Gordon Parker, Montezuma, forest examiner to forest supervisor; Arthur T. Upson, Pike, forest examiner to deputy forest supervisor; Vance I. Coe, Black Hills; John L. Allen, Bridger; James P. Reddick, Harney, assistant forest rangers to forest rangers.

DISTRICT 3.—Operation: Robert Stephenson, district office; Carl H. Riblett, Apache; Otto P. Schoenberg, Manzano; Charles V. Shearer, Pecos; Franklin H. Owens, Sitgreaves, assistant forest rangers to forest rangers.

DISTRICT 5.—Operation: Lewis Carrigan, Klamath, clerk to deputy forest supervisor; Guy S. Exon, Cleveland; Henry A. Kloppenburg and Allan J. Stanley, Plumas, assistant forest rangers to forest rangers; Jesse R. Hall, Santa Barbara, deputy forest supervisor, Klamath, to forest supervisor, Santa Barbara; Ernest B. Long, Shasta, forest ranger to deputy forest supervisor; Christopher Rachford, forest supervisor, Santa Barbara, to assistant district forester, Grazing, district office.

DISTRICT 6.—Operation: Shirley Buck, clerk to national forest inspector; Pearl V. Ingram, Fremont, assistant forest ranger to forest ranger. Lands: Thomas M. Talbot, district office, clerk (land law) to national forest examiner.

DISTRICT 7.—W. J. Damtoft, Smoky Mountain area, forest assistant to forest examiner.

CHANGE IN DESIGNATION.

DISTRICT 1.—Operation: Howard E. West, Gallatin; Adrian C. Adams, Jefferson, forest assistants to assistant forest rangers; Raymond L. Woesner, Blackfeet; Claget Sanders, St. Joe, forest rangers to scalers; William H. McCoy, Madison, forest ranger to assistant forest ranger. District office: Charles A. Fisher, forest supervisor to national forest examiner, Lands.

DISTRICT 2.—Operation: Theodore Krueger, Nebraska, assistant forest ranger to forest assistant; Allen W. Murdock, Michigan, forest assistant to assistant forest ranger.

DISTRICT 3.—Operation: Willis M. Baker, Apache; Frank T. Murphey, Carson; Oscar F. Schaefer, Coconino; Stanley F. Wilson, Coronado; C. Norman Hammond, Tusayan, Alfred W. Voight, Tonto, forest assistants to assistant forest rangers.

DISTRICT 5.—J. O. Morrow, deputy forest supervisor to national forest examiner.

RESIGNED.

RESEARCH.—Forest investigations: Georges de S. Canavarro, forest examiner; Hugh Maxwell, collaborator.

DISTRICT 1.—Operation: Claude W. Griffin, Cabinet, forest supervisor; James R. Gillis, Pend Oreille, forest assistant; Marion E.

Heikes, Blackfeet; Orie E. Heater and James Carl Saint, Cabinet; Lawrence J. Howard, Helena; John A. Kierstead, Nezperce, assistant forest rangers; Ernest D. Lamka, Lewis and Clark, forest clerk. District office; Lewis Padgett, Geography, draftsman (copyist-topographic); Ellen M. Linell, clerk (stenographer and typewriter).

DISTRICT 2.—Operation: Roderick D. McDonald, Bighorn; Angus H. Taylor, Routt; Otis M. Wimmer, Sopris, forest rangers; Ray M. Bradshaw, Arapaho; Thomas O. Patterson, Battlement; Earl C. Dennis, Black Hills; Kay L. Clark, Bonnevillle; Charles W. Kiel, Durango; John Owen Eames, Hayden; Walter F. Baumdicker, Leadville; Walter W. Smith, Michigan; Harry G. Waechter, Shoshone, assistant forest rangers.

DISTRICT 3.—Operation: John Spaerer, district office, draftsman (copyist-topographic); Albert C. Clancy, Carson; Otis C. Watson, Datil; R. L. Pfaffle, Jemez; Ralph C. Ramsay, Prescott; Joseph L. Henderson, Sitgreaves; John R. Coleman, Tonto, assistant forest rangers; William K. Blessing, Carson, clerk; William A. Stuart, Chiricahua; James F. Westfall, Coronado; Amasa O. Reynolds, Datil; Osmer D. Flake, Sitgreaves, forest rangers; George R. Brown, Manzano, forest clerk; Ruth C. Robbins, Tonto, clerk (stenographer and typewriter).

DISTRICT 4.—Operation: Lee O. Miles, Payette; Rolland A. Stretch, Wyoming, forest examiners; William R. Green, Ashley; George L. McGowan, Challis; Monty E. Buster, Payette; John F. Woodman, Targhee, assistant forest rangers.

DISTRICT 5.—Roy Bucknell, California; Harvey R. Cheesman and Archibald M. Cooper, Angeles; Albert R. Ivey, Tahoe; Eugene L. Johnston, Santa Barbara; George A. Kresge, Modoc; John A. Molin, Trinity; Waine E. Westfall, Sierra, assistant forest rangers; Harvey D. Gerwig, Cleveland; Wilfred A. Robison, Sequoia, forest clerks.

DISTRICT 6.—Operation: Louise Yoran, Cascade, clerk; Perry A. Thompson, Colville; William C. Fruit, Crater; Orville M. Gillenwater, Ochoco; Abner T. Wright, Ranier; Rush Ramey, Whitman, assistant forest rangers; Spencer A. Blankenship, Wenatchee; William C. Neff, Whitman, forest rangers. Silviculture: Hugo A. Winkenwerder, district office, forest assistant. Products: Marc Darrin, Seattle Laboratory, chemist in forest products.

With deep regret announcement is made of the death of Miss S. F. Seaton, clerk, Washington office, May 21, and John F. Greiman, statistical clerk, Washington office, June 8.

SERVICE NOTES FOR JULY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR

Law Cases in District 1—

United States *v.* W. C. Day: Property trespass, criminal, Jefferson National Forest. Case closed upon payment of \$17.94, value of property stolen.

United States *v.* Eli Dobrata: Fire trespass, criminal, Missoula National Forest. Arrested and arraigned January 26, 1915, entering plea of not guilty. June 18, 1915, withdrew plea and entered plea of guilty. Fined \$20 and costs, amounting to \$60.43; total, \$80.43.

United States *v.* Northern Pacific Railway Co.: Suit to cancel railroad's patent, Gallatin National Forest. Indemnity selection lands in Gallatin National Forest. Complaint filed by United States attorney June, 1915.

United States *v.* A. C. B. Pardoe: Property trespass, criminal, Flathead National Forest. Complaint filed under State law. Defendant sentenced to serve 60 days in county jail at Kalispell, Mont.

United States *v.* Romney, Sanderson, et al.: Property trespass, criminal, Absaroka National Forest. Theft of Government property from ranger station. Case presented to Federal grand jury at Helena June 17, 1915. Jury failed to return a true bill.

Law Cases in District 3—

United States *v.* Cyrus Marsteller: Grazing trespass, Coronado National Forest. Judgment, June 22, for \$50 and costs \$10.05; satisfied.

United States *v.* William Fourr: Occupancy trespass, Chiricahua National Forest. Decree May 18 directing removal of fence and awarding United States \$54.22 damages and costs.

United States *v.* Jose Mendosa: Timber trespass, Crook National Forest. June 16, defendant fined \$25; paid.

United States *v.* Wm. P. Sproull: Grazing trespass, Tonto National Forest. Complaint asking injunction and damages filed. Order entered June 21, requiring defendant to show cause why temporary injunction should not issue.

Law Case in District 4—

United States v. Saunders, Grand Canyon Cattle Co., et al.: Cancellation of patents. On April 28, 1915, a decision was handed down by Judge Sawtelle, of the United States district court for Arizona, holding that, while the Government had made out a case showing fraud in obtaining patents covering certain water holes and watering places in and adjacent to the Kaibab National Forest under the guise of mineral claims, the company was an innocent purchaser for value, and he ordered a decree entered for the defendant. The case is under consideration with a view to taking an appeal.

Law Cases in District 5—

United States v. C. H. Fee: Grazing trespass, Monterey National Forest. Settled by payment of \$13.40.

United States v. Orcier and Arzul: Grazing trespass, Mono National Forest. Settled by payment of \$14.52 each.

United States v. Pierce & Smart: Timber trespass, Tahoe National Forest. Paid a third installment of \$100.

United States v. James Irvine: Fire trespass, Cleveland National Forest. Settlement in full by payment of \$88.40.

United States v. The Engels Copper Mining Co.: Timber trespass, Plumas National Forest. The company paid the sum of \$1,467.28 in full settlement.

United States v. The Truckee Lumber Co.: Timber trespass, Tahoe National Forest. The company paid \$615.32 as part payment.

United States v. Matias Erro: Grazing trespass, Sierra National Forest. During the May term of the Federal court at Fresno, Cal., a consent judgment of \$150 was entered against Erro. Judgment was paid.

United States v. Davies Box & Lumber Co.: Timber trespass, Tahoe National Forest. The company offered the sum of \$265 in settlement. This offer has not as yet been accepted by the Treasury Department.

Law Cases in District 6—

United States v. Chas. W. Mock: Personating a forest officer, Snoqualmie National Forest. Pleaded guilty April 5, 1915, before the United States district court at Seattle, Wash.; was sentenced to 30 days in jail.

United States v. Walter B. Davidson: Property trespass, Oregon National Forest. On May 28 the Federal grand jury of Portland, Oreg., returned an indictment against defendant, under section 60 of the Penal Code, for cutting a Forest Service telephone line. Defendant pleaded guilty.

United States v. S. G. McCubbin: Grazing trespass, Wallowa National Forest. Settled by payment of \$10.75 actual damage, costs \$37.45, total \$48.20.

OPERATION.

Development of New Equipment—

A plan has been inaugurated whereby the supply depot at Ogden, Utah, will be made a clearing house for information regarding experiments, conducted throughout the Service, with new features in the way of fire-fighting devices and equipment for other purposes. This scheme, of which details will be issued by the district foresters, is expected to promote progress and at the same time prevent duplication of work along any given line.

Property Secured by Purchase—

The Forester has approved the following changes in the Manual, effective July 15, so as to enable the property auditor to check non-expendable property on Form 939c:

On page 28-A, after the end of the second paragraph under the heading "Property procured by purchase," add "He will indicate on the Form 939c sent to the property auditor all articles or materials entering into the maintenance or construction of permanent improvements and the construction of any equipment, furniture, or furnishings."

Paragraph 3, under the same heading, after the word "made," in line 1, add "of any Form 5a account."

On page 33-A, the paragraph under "Property auditor's reports" is amended by adding after the word "water," in line 4, the following: "and articles entering into construction and maintenance of improvements, such as lumber, doors, windows, telephone and fencing material, and hardware."

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 145.—Tests of Wood Preservatives.

Department Bulletin 210.—Seed Production of Western White Pine.

Department Bulletin 237.—The Production of Lumber in 1913.

Unnumbered Publication.—A Handbook for Campers in the National Forests of California.

Yearbook Extract.—The National Forests and the Farmer.

Yearbook Extract.—The Farm Woodlot Problem.

Folder for Ochoco National Forest.

Folder for Sierra National Forest.

Folder for Fishlake National Forest.

Folder for Modoc National Forest.

Folder for Plumas National Forest.

Folder for California National Forest.

Folder for Trinity National Forest.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

[JULY, 1915.]

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- Law cases in district 1; July (24).
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 - 4; July (25).
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- Cancellation of patent, district 1; July (24).
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 - 5; July (25).
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